

National Health and Nutrition Examination Survey 1999–2014 Survey Content Brochure













The Survey Content Brochure is a summary of the available 1999–2014 NHANES data.

The National Health and Nutrition Examination Survey (NHANES) is a program of studies designed to assess the health and nutritional status of adults and children in the United States. The survey is unique in that it combines interviews with physical and laboratory examinations.

The NHANES program began in the early 1960s and has been conducted as a series of surveys focusing on different population groups or health topics. The historical surveys are referred to as NHANES I, NHANES II, and NHANES III.

In 1999, the survey became a continuous program that has adaptable components on a variety of health and nutrition measurements to meet emerging needs. The survey examines a nationally representative sample of about 5,000 persons each year. These persons are located in counties across the country, 15 of which are visited each year.

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Table 1. Questionnaire topic areas of the National Health and Nutrition Examination Survey, 1999–2014



	Component or lab test conducted	l on original samp	ole description	Change fr	om original san	nple description	Compo	nent or lab test	not conducte
Component	Sample description	1999–2000	2001–2002	2003–2004	2005–2006	2007–2008	2009–2010	2011–2012	2013–2014
Survey participant (SP) questionnaire									
Acculturation (ACQ)	12 years and over								Note T
Allergy (AGQ)	1 year and over								
Air quality (AQQ)	16 years and over								
Balance (BAQ)	40 years and over								
Blood pressure and cholesterol (BPQ)	16 years and over								
Cardiovascular disease (CDQ)	40 years and over								
Cognitive functioning (CFQ)	60 years and over							No	ote A
Demographic background (DMQ)	Birth and over								
Dermatology (DEQ)	6 years and over ¹						Note B		
Diabetes (DIQ)	1 year and over								
Diet behavior and nutrition (DBQ)	Birth and over								
Dietary screener module (DTQ)	2–11 years								
Dietary supplements (DSQ) and medications (RXQ)	Birth and over								
Disability status (DLQ)	1 year and over								
Early childhood (ECQ)	Birth-15 years								
Health insurance (HIQ)	Birth and over		Note C						
Hearing/audiometry (AUQ)	1 year and over								
Hepatitis (HEQ)	6 years and over								
Hospital utilization and access to care (HUQ)	Birth and over								
Immunization (IMQ)	Birth and over								
Inflammatory arthritis pain (ARQ)	20-69 years								
Kidney conditions (KIQ)	20 years and over								
Medical conditions (MCQ)	1 year and over								
Miscellaneous pain (MPQ)	20 years and over								
Occupation (OCQ)	12 years and over ¹						Note D		
Oral health (OHQ)	2 years and over ¹				No	te E	No	te F	Note S
Osteoporosis (OSQ)	20 years and over								Note H
Physical activity and physical fitness (PAQ)	2 years and over								
Physical functioning (PFQ)	1 year and over ¹							Note G	
Respiratory health and disease (RDQ)	1 year and over								
Sleep disorders (SLQ)	16 years and over								

Table 1. Questionnaire topic areas of the National Health and Nutrition Examination Survey, 1999–2014 (Continued)



	Component or lab test conducted	ed on original samp	ole description	Change fr	om original sam	nple description	Compo	nent or lab test	not conducte
Component	Sample description	1999–2000	2001–2002	2003–2004	2005–2006	2007–2008	2009–2010	2011–2012	2013–2014
Smoking and tobacco use (SMQ)	20 years and over								Note E
Social support (SSQ)	60 years and over ¹				No	te H			
Taste and smell (CSQ)	40 years and over							Note I	
Tuberculosis (TBQ)	1 year and over ¹							Note J	
Vision (VIQ)	20 years and over ¹				No	te K			
Weight history (WHQ)	16 years and over								
Family questionnaire									
Demographic background (DMQ)	Birth and over								
Consumer behavior (CBQ)	Birth and over								
Food security (FSQ) ²	Birth and over								
Health insurance (HIQ)	Birth and over					Note L			
Housing characteristics (HOQ)	Birth and over								
Income (INQ)	Birth and over								
Pesticide use (PUQ)	Birth and over					Note M			
Smoking-household (SMQ)	Birth and over								
Mobile examination center (MEC) questionnaire									
Audio computer-assisted self-interview (ACASI)	12 years and over								
Alcohol use (ALQ)	12–19 years¹							Not	te N
Conduct disorders (CDQ)	12–19 years								
Drug use (DUQ)	12–59 years ¹						No	te O	
Food security (FSQ)	12–15 years								
Prostate conditions (PSQ)	Males 20 years and over	Note P				Note Q			
Pubertal maturation (PUQ)	8–19 years								
Sexual behavior (SXQ)	14–59 years ¹						No	te R	
Smoking and tobacco use (SMQ)—Youth	12–19 years ¹								Note N
Computer-assisted personal interview (CAPI)	12 years and over								
Alcohol use (ALQ)	20 years and over ¹							No	te E
Bowel health (BHQ)	20 years and over								
Current health status (HSQ)	12 years and over								
Dietary screener module (DTQ)	12–69 years								
Muscle pain/creatine kinase (CKQ)	12 years and over								
Pesticide exposure (PUQ)	8 years and over								

Table 1. Questionnaire topic areas of the National Health and Nutrition Examination Survey, 1999–2014 (Continued)



	Component or lab test conducted of	on original samp	le description	Change fr	ple description	Component or lab test not conducted			
Component	Sample description	1999–2000	2001–2002	2003–2004	2005–2006	2007–2008	2009–2010	2011–2012	2013–2014
Physical activity (PAQ)	12–15 years								
Prostate conditions (KIQ)	Males 20 years and over								
Reproductive health (RHQ)	Females 12 years and over								
Smoking and tobacco use (SMQ)—Adult	20 years and over								Note K
Urology (KIQ)	20 years and over								
Volatile toxicants (VTQ)	1/3 sample 12 years and over								
Weight history (WHQ)	8–15 years								

¹Except where noted otherwise.

²In 2001–2010, adult and child person-level food security data was collected after the dietary recall.

Note A: Moved to MEC questionnaire and expanded.

Note B: Aged 20–59 years.

Note C: Asked in family questionnaire.

Note D: Aged 16 years and over.

Note E: Aged 18 years and over.

Note F: Aged 30 years and over from 2009–2010 and 1 year and over from 2011–2014.

Note G: Aged 5 years and over.

Note H: Aged 40 years and over.

Note I: Started in 2012.

Note J: Aged 6 years and over.

Note K: Aged 12 years and over.

Note L: Found in SP questionnaire.

Note M: Found in MEC interview.

Note N: Aged 12–17 years.

Note O: Aged 12–69 years.

Note P: Found in SP questionnaire KIQ component.

Note Q: Moved to CAPI.

Note R: Aged 14–69 years.

Note S: Added questions related to the enhanced fluorosis examination.

Note T: Aged 3 years and over.

Table 2. Post-examination follow-up questionnaire components of the National Health and Nutrition Examination Survey, 1999–2014



	Component or lab test conducted o	Change from	om original sam	ple description	Component or lab test not conducted				
Component	Sample description	1999–2000	2001–2002	2003–2004	2005–2006	2007–2008	2009–2010	2011–2012	2013–2014
Flexible consumer behavior survey module (FCBS) phone follow-up (CBQ)	1 year and over								
Food frequency	2 years and over			Not	te A				
Hepatitis C follow-up (HCQ)	SPs with Hep C								
Prostate-specific antigen (PSA) follow-up	Men 40 years and over with high results ¹				Note B				

¹Except where noted otherwise. Note A: Data collected by mail.

Note B: Conducted with men aged 40–70 years.

Table 3. Examination components of the National Health and Nutrition Examination Survey, 1999–2014



	Component or lab test conducte	Component or lab test conducted on original sample d				nple description	n Component or lab test not conducted			
Component	Sample description	1999–2000	2001–2002	2003-2004	2005–2006	2007–2008	2009–2010	2011–2012	2013–2014	
Arthritis body measures	20-69 years									
Audiometry	1/2 sample 20–69 years ¹					Not	e A			
Balance	1/2 sample 40–69 years ¹		Not	te B						
Bioelectrical impedance analysis	8–49 years									
Blood pressure	8 years and over									
Body measurements	Birth and over							No	te C	
Cardiovascular (CV) fitness	12–49 years ¹				Note D					
Cognitive function	60 years and over									
Dermatology	20–59 years									
Dietary	Birth and over					Note E				
Dietary supplement	Birth and over						No	ote F		
Dual energy x-ray absorptiometry										
Abdominal aortic calcification	40 years and over									
Body composition	8 years and over ¹	Note G			Note H			No	te l	
Bone density—hip and spine	8 years and over									
Vertebral fracture assessment	40 years and over									
Grip strength test	6 years and over									
Lower extremity disease										
Peripheral neuropathy	40 years and over									
Peripheral vascular disease	40 years and over									
Mental health	8–39 years									
Attention deficit hyperactivity disorder (ADHD)—Youth	Parent of 8–15 years	Note K								
Anxiety—Youth	8–19 years									
Conduct disorders—Youth	Parent of 8–15 years	Note K								
Depression—Youth	8–19 years	Note K								
Eating disorders—Youth	8–19 years	Note K								
Elimination disorders—Youth	Parent of 8–11 years	Note K								
Panic disorder—Youth	8–19 years									
Depression—Adult	1/2 sample 20–39 years ¹						Note L			
Generalized anxiety—Adult	1/2 sample 20–39 years									
Panic disorder—Adult	1/2 sample 20–39 years									



	Component or lab test conduct	ed on original samı	ole description	Change fr	om original sam	ple description	Component or lab test not conducted		
Component	Sample description	1999–2000	2001–2002	2003-2004	2005–2006	2007–2008	2009–2010	2011–2012	2013–2014
Ophthalmology									
Retinal photo	40 years and over								
Visual fields	40 years and over								
Oral health	2 years and over				Not	e M	Note N	No	te O
Dental flurosis imaging	2 years and over								
Physical activity monitor	6 years and over							No	te P
Physical functioning									
8-foot timed walk	50 years and over	Note K							
20-foot timed walk	50 years and over								
Isokinetic	50 years and over								
Physician exam	Birth and over								
Respiratory health									
Exhaled nitric oxide	6–79 years								
Spirometry	6–79 years								
Taste and smell	40 years and over							No	te Q
Tuberculin skin test	1 year and over ¹							Note R	
Vision	12 years and over								

¹Except where noted otherwise.

Note A: Target ages are varied by year.

Note B: Increased to full sample, 40 years and over.

Note C: Sagittal abdominal diameter was added for SPs 8 aged years and over; skinfolds were dropped in 2011 and added in 2012 for children aged 3–15 years.

Note D: Conducted with the afternoon and evening SPs.

Note E: In 2002, new interview system implemented; all SPs asked to complete a second recall by phone.

Note F: A second recall by phone.

Note G: Age range for women was 18 years and over.

Note H: Aged 8–69 years.

Note I: Aged 8-59 years.

Note J: Data collected by mail.

Note K: Data collection started in 2000.

Note L: Ages 12 years and over with full sample using PHQ-9 screener.

Note M: Changed from comprehensive dentist based exam to a simplified oral health screening for SPs aged 5 years and over.

Note N: Changed from a simplified health screening to a more comprehensive exam done by a dental hygienist.

Note O: Conducted by a dentist; sample is aged 1 year and over.

Note P: Ages 3 years and over in 2012.

Note O: Data collection started in 2012.

Note R: Aged 6 years and over.



	Component or lab test conducted o	n original samp	ole description	Change fr	om original sam	nple description	Component or lab test not conducted			
Component	Sample description	1999–2000	2001–2002	2003–2004	2005–2006	2007–2008	2009–2010	2011–2012	2013–2014	
Acrylamide	3 years and over ¹					Not	e A		Note A	
Albumin ²	6 years and over									
Albumin (home urine) ²							No	Note B		
Aldehydes	1/3 sample (12 years and over) and all adult smokers									
Apolipoprotein (B)	1/2 sample 12 years and over						Note C			
Aromatic amines ²	1/3 sample (6 years and over) and all adult smokers									
Arsenic ²	1/3 sample 6 years and over									
Bone alkaline phosphatase	8 years and over ¹			Note D						
BV/trichomonas	Females 14–49 years									
Cadmium	1 year and over								Note JJ	
Caffeine exposure ²	1/3 sample (6 years and over)									
CD4/CD8	18–49 years, HIV+, and controls									
Celiac disease (tTG-EMA)	6 years and over									
Chemistry panel	12 years and over									
Chlamydia ²	14–39 years									
Cholesterol (total)	3 years and over ¹						Note A			
High density lipoprotein (HDL)	3 years and over ¹						Note A			
Low density lipoprotein (LDL)	Subsample 3 years and over ¹						Note E			
Complete blood count	1 year and over									
Cotinine	3 years and over									
C-reactive protein (CRP)	3 years and over ¹			No	te F	Not	e G			
Creatine phosphokinase	12 years and over							Note H		
Creatinine ²	6 years and over									
Creatinine (home urine) ²	6 years and over							Note B		
Cryptosporidium	6–49 years		Note I							
Cytomegalovirus	1–5 years									
Dust allergens	1 year and over									
Environmental phenols	1/3 sample 6 years and over									
Erythrocyte protoporphyrin	1 year and over ¹			No	te J					
Estradiol	6 years and over									



	Component or lab test conducted of	on original samn	le description	Change fr	om original sam	nnle description	Component or lab test not conducte		
Component	Sample description	1999–2000	2001–2002	2003–2004	2005–2006	2007–2008	2009–2010	2011–2012	2013–2014
Ferritin	1 year and over ¹	1777 2000	2001 2002	2003 2001		te K	2007 2010	2011 2012	2013 2011
Fibrinogen	40 years and over				110				
Fluoride (plasma)	6–19 years								
Fluoride (water)	Birth–19 years								
Folate (RBC)	3 years and over ¹					Not	te F		
Folate (serum)	3 years and over ¹					Not	te F		
Follicle stimulating hormone/luteinizing hormone (FSH/LH)	Females 35–60 years								
Fungicides ²	1/3 sample 6 years and over1	No	te L						
Glucose	12 years and over								
Glycohemoglobin	12 years and over								
Gonorrhea ²	14–39 years								
Halogenated phenolic compounds/environmental pesticides ²	1/3 sample 6 years and over ¹	No	te L						
Helicobacter pylori	3 years and over		Note I						
Hepatitis (antiHBs)	2–5 years								
Hepatitis A, B, C, D, E	6 years and over					Note M		Not	e M
Herbicides—substituted ureas and others	1/3 sample 6 years and over1	No	te L						
Herpes 1 and 2 antibody	14–49 years								
Heterocylic aromatic amines ²	1/3 sample (6 years and over) and all adult smokers								
HLA-B27 (inflammatory arthritis)	20–69 years						Note N		
Homocysteine	3 years and over ¹				Note O				
Human immunodeficiency virus (HIV) antibody	18–49 years							Note P	
Human papillomavirus (HPV) (oral rinse)	14–69 years								
Human papillomavirus (HPV) (serum)	14–59 years		Note Q						
Human papillomavirus (HPV) (swab)	Females 14–59 years		Note Q						
Human papillomavirus (HPV) (male)	14–59 years								
Hydroxylated polychlorinated biphenyls	1/3 sample 12 years and over								
Immunoglobulin E-allergens	1 year and over								
Insulin/C-peptide	Subsample 12 years and over		Note C			1	Note R, Note (-	



	Component or lab test conducted o	on original samp	ole description	Change fr	om original sam	nple description	Component or lab test not conducted			
Component	Sample description	1999–2000	2001–2002	2003–2004	2005–2006	2007–2008	2009–2010	2011–2012	2013–2014	
lodine ²	1/3 sample 6 years and over ¹	Note S				Note S				
Iron	1 year and over			No	te T					
Latex	12–59 years		Note I							
Lead	1 year and over								Note JJ	
Lead dust	Households with 1–5 years									
Lp(a) (Lipoprotein(a))	Subsample 12 years and over				Note U					
Manganese ²	1/3 sample 6 years and over									
Measles/varicella/rubella	6–49 years						Note V			
Mercury	1–5 years, females 16–49 years¹					Not	te F			
Mercury (hair)	1-5 years, females 16-49 years		Note I							
Mercury ²	Females 16–49 years ¹					Not	e W			
Metals ²	1/3 sample 6 years and over									
Methicillin resistant staphlococcus aureus (MRSA)	1 year and over									
Methylmalonic acid	3 years and over ¹							Not	te O	
NAL ²	6 years and over									
Nicotine analogs ²	1/3 sample (6 years and over) and all adult smokers									
Nondioxin-like polychlorinated biphenyls	1/3 sample 12 years and over				Note II			Note II		
N-teleopeptide ² (NTX)	8 years and over									
Oral glucose tolerance (OGTT)	Subsample 12 years and over						Note C			
Organophosphate insecticides ²	1/3 sample 6 years and over1	No	te L							
Osmolality ²	6 years and over									
Parathyroid hormone	6 years and over									
Perchlorate/thiocynate/nitrates ²	6 years and over ¹			Note X						
Perchlorate (water)	1/2 sample 12 years and over									
Pesticides ²										
Organochlorine ²	1/3 sample 12 years and over									
Other ²	1/3 sample 6 years and over1	No	te L							
Pyrethroid ²	1/3 sample 6 years and over ¹		Note Y							
Phthalates ²	1/3 sample 6 years and over									



					,				
	Component or lab test conducted of	on original samp	ole description	Change fr	om original san	nple description	Compo	nent or lab test	not conducted
Component	Sample description	1999–2000	2001–2002	2003–2004	2005–2006	2007–2008	2009–2010	2011–2012	2013–2014
Phytoestrogens ²	1/3 sample 6 years and over								
Polyaromatic hydrocarbons ² (PAH)	1/3 sample 6 years and over								
Polybrominated diphenyl ethers	1/3 sample 12 years and over						Note II		
Polychlorinated and polybrominated dibenzo- p-dioxins, dibenzo-furans, coplanar and mono- ortho-substituted biphenyls	1/3 sample 12 years and over						Note II		
Polyfluorinated compounds	1/3 sample 12 years and over ¹	Note Z							
Polyunsaturated fatty acids	3–11 years, a.m. SPs 12 years and over			Not	e AA				
Prostate specific antigen (PSA)	Males 40 years and over								
Selenium/copper/zinc	3–11 years¹		Note BB	Not	e CC			Note	e DD
Sex hormone binding globulin	6 years and over								
Stored sera	6 years and over					Not	e EE		
Stored urine	6 years and over								
Syphillis	18–49 years								
Testosterone	6 years and over								
Thyroid function testing	1/3 sample 12 years and over ¹					Note FF			
Tobacco-specific nitrosamines ²	1/3 sample (6 years and over) and all adult smokers								
Total iron binding capacity (TIBC)/transferrin saturation	1 year and over ¹			No	te T				
Toxaphenes	1/3 sample 12 years and over								
Toxoplasma	6–49 years	Note Z							
Trans fatty acids	3–11 years, a.m. SPs 12 years and over								
Transferrin receptor	1–5 years, females 12–49 years								
Trichomonas	14–59 years								
Triglycerides	Subsample 3 years and over ¹			Note E					
Tuberculosis	6 years and over								
Urine flow rate calculation ²	6 years and over								
Vitamin A/E/carotenoids	3 years and over ¹			No	te A				
Vitamin B6	1 year and over								



	Component or lab test conducted o			Change fr	om original sam	ple description	Component or lab test not conducted		
Component	Sample description	1999–2000	2001–2002	2003–2004	2005–2006	2007–2008	2009–2010	2011–2012	2013–2014
Vitamin B12	3 years and over ¹			No	te F			Not	e O
Vitamin C	6 years and over								
Vitamin D	6 years and over ¹				Note	e GG			
Volatile nitrosamines ²	1/3 sample (6 years and over) and all adult smokers								
Volatile organic compounds (VOCs)	Subsample 20–59 years ¹						Note HH		
Volatile organic compounds (VOC) exposure monitor	Subsample 20–59 years		Note I						
Volatile organic compounds (VOC) (urine)	Subsample (12 years and over) and all adult smokers								
Volatile organic compounds (VOC) (water)	Subsample 20–59 years ¹					Note HH			
White blood cells/deoxyribonucleic acid (WBC/DNA)	20 years and over								

¹Except where noted otherwise.

Note A: Aged 6 years and over. In 2013, Acrylamide test was conducted on one-third sample 6 years and over.

Note B: Second specimen is collected in home.

Note C: Morning SPs only.

Note D: Aged 8-49 years.

Note E: Aged 12 years and over; morning SPs only.

Note F: Aged 1 year and over.

Note G: In 2007–2008, for ages 20 and over; for ages 3 years and over in 2009–2010.

Note H: Data collection started in 2010.

Note I: Data collection ended in 2001.

Note J: Aged 3-5 years and females aged 12-49 years.

Note K: Aged 1-5 years and females aged 12-49 years.

Note L: In 1999, subsample was one-fourth of those aged 12-59 years; in 1999-2002, subsample was one-half of those aged 6-11 years.

Note M: Started hepatitis E in 2009.

Note N: Conducted in 2009 only.

Note O: Aged 20 years and over.

Note P: Aged 18-59 years.

Note Q: Data collection began in 2002.

Note R: Insulin only.

Note S: Data collection began in 2000 and was a full sample in 2007–2008 only.

Note T: Age range changed to 3–5 years and females aged 12–59 years.

Note U: Conducted in 2005 only.

Note V: Mumps added.

Note W: Conducted on a one-third sample of SPs aged 6 years and over.

Note X: Analyzed retrospectively from surplus sera, 2001–2004; in 2005–2012, subsample was one-third of those aged 6 years and over.

Note Y: In 2001–2002, subsample was one-half of those aged 6–11 years.

Note Z: Analyzed retrospectively from surplus sera, 1999–2000.

Note AA: Analyzed retrospectively from surplus sera, 2003–2006.

²Urine sample.



Note BB: Selenium ended in 2001.

Note CC: In 2003–2004, selenium was conducted on SPs aged 40 years and over.

Note DD: Copper and zinc added. conducted on one-third sample on SPs aged 6 years and over.

Note EE: Reduced number of vials.

Note FF: In 2007-2008, full sample.

Note GG: Vitamin D began in 2000; in 2003–2012, vitamin D was conducted on SPs aged 1 year and over.

Note HH: Conducted on a one-half sample of SPs aged 12 years and over.

Note II: The individual serum samples were assigned by age, race and ethnicity, and gender groups; then the serum was pooled and tested by each group.

Note JJ: All SPs aged 1–11 years; one-half sample aged 12 years and over.





ADHD Attention deficit hyperactivity disorder BV Bacterial vaginosis CAPI Computer-assisted personal interview CBQ Consumer behavior questionnaire CD4/CD8 T lymphocyte helper cells CDISC National Institute of Mental Health's Computerized Diagnostic Interview Schedule for Children CIDI World Health Organization's Composite International Diagnostic Interview CRP C-reactive protein CV fitness Cardiovascular fitness FCBS Flexible Consumer Behavior Survey module	
CAPI Computer-assisted personal interview CBQ Consumer behavior questionnaire CD4/CD8 T lymphocyte helper cells CDISC National Institute of Mental Health's Computerized Diagnostic Interview Schedule for Children CIDI World Health Organization's Composite International Diagnostic Interview CRP C-reactive protein CV fitness Cardiovascular fitness FCBS Flexible Consumer Behavior Survey module	
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CV fitness Cardiovascular fitness FCBS Flexible Consumer Behavior Survey module	
FCBS Flexible Consumer Behavior Survey module	
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FSH/LH Follicle stimulating hormone/luteinizing hormone	
HBs Hepatitis B surface antibody	
HDL High density lipoprotein	
HIV Human immunodeficiency virus	
HLA-B27 Human leukocyte antigen B27	
HPV Human papillomavirus	
LDL Low density lipoprotein	
Lp(a) Lipoprotein (a)	
MEC Mobile examination center	
MRSA Methicillin resistant staphlococcus aureus	
NTX N-telopeptides of bone type I collagen	
OGTT Oral glucose tolerance test	
PAH Polyaromatic hydrocarbons	
PSA Prostate specific antigen	
PTH Parathyroid hormone	
RBC Red blood cell	
SP Survey participant	
TH Thyroxin	
TIBC Total iron binding capacity	
TSH Thyroid stimulating hormone	
TTG-EMA Anti-transglutaminase (tTG) and anti-endomysium (EMA) antibodies	
VOC Volatile organic compounds	
WBC/DNA White blood cells/deoxyribonucleic acid	

NHANES Data Tutorials

NHANES data tutorials provide relevant background data; tips and explanations for SAS and SUDAAN programs; downloadable sample program code; and analytic guidance. Tutorials are organized and integrated into modules and tasks to facilitate this learning process.

Continuous NHANES Tutorial

Everything you want and need to know about analyzing continuous (1999 and later) NHANES data is now available in a web-based product. The Continuous NHANES Tutorial is designed to help users navigate through the data set. Users can browse through different modules to gain insight into NHANES data.

Historical NHANES Tutorials

These tutorials will familiarise users with NHANES I, NHANES II, and NHANES III data, guide users through preparing an analytic data set, and explain distinctions of each survey design. New users of NHANES data should complete the continuous NHANES tutorial before using these tutorials.

Special -topic Tutorials

■ NHANES Dietary Tutorial

This tutorial guides users through the steps of conducting an analytical project from beginning to end, with examples of many common analytic procedures.

■ NHANES Environmental Chemical Data Tutorial

This tutorial will familiarize users with Continuous NHANES environmental chemical data, guide users through preparing an environmental chemical analytic data set, and explain the critical issues for the analysis of environmental chemical data. Users already familiar with Continuous NHANES data and interested in using NHANES environmental chemical data should use this tutorial. New users of NHANES data should complete the Continuous NHANES tutorial before beginning this tutorial.

- NHANES Physical Activity and Cardiovascular Fitness Data Tutorial

 This tutorial simulates a real life experience of how to conduct an analytical project from beginning to end, with a step-by-step logical flow through typical analytic procedures.
- NHANES-CMS (Centers for Medicare and Medicaid Services) Linked Data Tutorial

This tutorial walks you through the steps for conducting an analytic project using the continuous NHANES-CMS linked data, with examples of common analytic applications and procedures.